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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/629,599	07/30/2003	Antonio Lain	200205658-2	6218	
22879 75	. 10/18/2006	EXAMINER BANKS, CORBANN			
	ACKARD COMPANY				
	00, 3404 E. HARMONY I AL PROPERTY ADMIN	ART UNIT	PAPER NUMBER		
	NS, CO 80527-2400		2132		
			DATE MAILED: 10/18/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

				Applicatio	n No.	Applicant(s)				
Office Action Summary			10/629,599	9	LAIN ET AL.					
			Examiner		Art Unit					
				Corbann A.		2132				
Pe		The MAILING DATE of this communic r Reply	cation appe	ears on the	cover sheet with the c	orrespondence ad	Idress			
	WHIC - Exter after - If NO - Failu Any r	DRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MASSIDE OF	AILING DA of 37-CFR 1.136 unication. tutory period will will, by statute, of	TE OF THI 6(a). In no ever Il apply and will cause the appli	IS COMMUNICATION 11, however, may a reply be tin expire SIX (6) MONTHS from cation to become AB ANDONE	N. nety filed the mailing date of this c D (35 U.S.C. § 133).				
St	atus									
	1)	Responsive to communication(s) filed	d on <i>30 Jul</i>	lv 2003.						
	·	· · · · · · · · · · · · · · · · · · ·								
3) Since this application is in condition for allowance except for formal matters, prosecution							e merits is			
	٠,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Di	ispositi	on of Claims								
	4) Claim(s) <u>1 - 13</u> is/are pending in the application.									
	·	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.									
	6)⊠ Claim(s) <u>1 -13</u> is/are rejected.									
	7) Claim(s) is/are objected to.									
	8)	Claim(s) are subject to restrict	tion and/or	election re	quirement.					
ΑI	pplicati	on Papers								
	9)[The specification is objected to by the	Examiner	•						
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
	•	Applicant may not request that any object								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Ρı	riority u	inder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 										
Αt	tachmen	t(s)								
		e of References Cited (PTO-892)			4) Interview Summary					
	Information Inf	e of Draftsperson's Patent Drawing Review (P1 nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>30 July 2003</u> .	TO-948)		Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Here, it mentions "a first value associated with invalidation of the first user's key". It is never stated exactly how or when the first user's key is determined to be invalid, thus making the claim indefinite and unclear. The claim also states "comprising the steps of: issuing a security key to a first user eligible to receive the service; ... establishing, in accordance with a policy, a first value associated with invalidation of the first user's key, and a second value associated with providing the service to an ineligible user, and if the second value exceeds the first value, invalidating the key". It is not made explicitly clear whether the "key" they are invalidating is the actual "security key" or the "first user's key", thus making the claim further indefinite and unclear. Finally, the limitation in the claim does not specifically state what happens when the "second value" does not exceed the "first value", making it more indefinite and vague.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 10 - 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sweet et al. (US PGPub 2002/0031230 A1) in view of Stefik et al. (US Patent # 6,236,971).

Examiner has pointed out particular references contained in the prior arts of record in the body of this action for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. Applicant should consider the entire prior art as applicable as to the limitations of the claims. It is respectfully requested from the applicant, in preparing the response, to consider fully the entire references as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior arts or disclosed by the examiner.

Here, Sweet clearly shows the use of a method of managing security keys (see paragraph 0023) provided to users of a service comprising the steps of: issuing a security key to a first user eligible to receive the service (see paragraph 0037); monitoring the first user's status to establish whether the first user is eligible to receive

Application/Control Number: 10/629,599

Art Unit: 2132

the service (see paragraph 0025). However, Sweet does not teach the use of an establishment, in accordance with a policy, of a first value associated with invalidation of the first user's key, and a second value associated with providing the service to an ineligible user, and if the second value exceeds the first value, invalidating the key.

On the other hand, Stefik does teach the use of establishing a policy using repository security classes which can create and manage such values mentioned above (see column 14, lines 34 - 40).

Hence, it would have been obvious to one of ordinary skill in the art to have included the technology shown by Stefik into the device taught by Sweet above, in order to assure the convenience of access and low-overhead billing, despite some unauthorized copying (see column 15, lines 15 – 25 of the Stefik reference). With respect to claims 10 -12, their limitations map directly onto the ones shown in claim 1 and are rejected under the same premise.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sweet et al. (US PGPub 2002/0031230 A1) in view of Stefik et al. (US Patent # 6,236,971) as applied to claims 1 and 10 - 12 above, and further in view of Aiello et al. (US Patent # 6.397.329 B1). The Sweet and Stefik references has already been discussed above. However, neither one of these two teaches a policy that further provides the first value

Application/Control Number: 10/629,599

Art Unit: 2132

as related to the economic penalty associated with reconfiguration of keys issued to other users consequent to invalidation of the first user's key.

On the other hand, Aiello does teach the use of a key invalidation scheme (i.e. policy) that provides the first value as related to the economic penalty associated with reconfiguration of keys issued to other users consequent to invalidation of the first user's key (see columns 11 –12, lines 36 – 67 and 1 - 26).

Hence, it would have been obvious to one of ordinary skill in the art to have included the methods shown by Aiello into the combination taught by prior two references above, in order to reduce the consequent number of tokens (keys) needed to be updated each time a user's key is invalidated in a hierarchical structure (see column 10, lines 48 – 56 of the Aiello reference), thus assuring low-overhead billing and the convenience of access, despite some unauthorized copying (see column 15, lines 15 – 25 of the Stefik reference).

Claims 3 – 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sweet et al. (US PGPub 2002/0031230 A1) in view of Stefik et al. (US Patent # 7,024,392 B2).

The Sweet reference has already been discussed above. However, the Sweet reference does not teach the use of a policy which provides the second value as related to aggregating the economic penalty associated with provision of the service to the ineligible user.

Art Unit: 2132

On the other hand, Stefik does teach the use of a policy using repository security classes which can create and calculate such a value as described above (see column 14, lines 20 – 25 and 34 - 40)

Hence, it would have been obvious to one of ordinary skill in the art to have included the technology shown by Stefik into the device taught by Sweet above, in order to help ensure the convenience of access and low-overhead billing, despite some unauthorized copying (see column 15, lines 15 – 25 of the Stefik reference). With respect to claim 3, the limitations shown there map directly onto the ones shown in claim 4 and are rejected under the same premise.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sweet et al. (US PGPub 2002/0031230 A1) in view of Stefik et al. (US Patent # 7,024,392 B2). The Sweet reference has already been discussed above. However, the Sweet reference does not teach the use of an economic penalty associated with provision of service to ineligible users, including a value representative of dilution of economic value to eligible users consequent to provision of the service to ineligible users.

On the other hand, Stefik does teach the use of a policy using repository security classes which can create and calculate such a value as described above (see column 6, lines 15 – 30, and column 14, lines 20 – 25 and 34 - 40)

Page 7

Hence, it would have been obvious to one of ordinary skill in the art to have included the technology shown by Stefik into the device taught by Sweet above, in order to help ensure the convenience of access and low-overhead billing, despite some unauthorized copying (see column 15, lines 15 – 25 of the Stefik reference).

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sweet et al. (US PGPub 2002/0031230 A1) in view of Stefik et al. (US Patent #7,024,392 B2). The Sweet reference has already been discussed above. However, the Sweet reference does not teach the use of an economic penalty of providing the service to ineligible users, including any costs arising from the provision of network and server capacity to ineligible users.

On the other hand, Stefik does teach the use of a policy using repository security classes which can create and calculate such a value as described above (see column 6, lines 15 – 20, and column 14, lines 20 – 25 and 34 - 40)

Hence, it would have been obvious to one of ordinary skill in the art to have included the technology shown by Stefik into the device taught by Sweet above, in order to help ensure the convenience of access and low-overhead billing, despite some unauthorized copying (see column 15, lines 15 – 25 of the Stefik reference).

Art Unit: 2132

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sweet et al. (US PGPub 2002/0031230 A1) in view of Stefik et al. (US Patent # 6,236,971) as applied to claims 1 and 10 - 12 above, and further in view of Aiello et al. (US Patent # 6,397,329 B1). The Sweet and Stefik references has already been discussed above. However, neither one of these two teaches the use of security keys being generated in an ancestrally-based hierarchy, and wherein invalidation of a given key necessitates a need for reconfiguration of each key in the hierarchy.

On the other hand, Aiello does teach the use of security keys being generated in an ancestrally-based hierarchy (see column 8, lines 35 - 60), and wherein invalidation of a given key necessitates a need for reconfiguration of each key in the hierarchy (see columns 13 - 14, lines 39 - 67 and 1 - 31).

Hence, it would have been obvious to one of ordinary skill in the art to have included the methods shown by Aiello into the combination taught by prior two references above, in order to reduce the consequent number of tokens (keys) needed to be updated each time a user's key is invalidated in a hierarchical structure (see columns 5 and 10, lines 55-60 and 48-56 of the Aiello reference), thus assuring low-overhead billing and the convenience of access, despite some unauthorized copying (see column 15, lines 15-25 of the Stefik reference).

Art Unit: 2132

Claims 8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sweet et al. (US PGPub 2002/0031230 A1) in view of Stefik et al. (US Patent # 6,236,971) as applied to claims 1 and 10 - 12 above, and further in view of Aiello et al. (US Patent # 6,397,329 B1). The Sweet and Stefik references has already been discussed above. However, neither one of these two teaches that upon invalidation of a given key, another key requires reconfiguration only to the extent that it shares common ancestor keys with the given invalidated key.

On the other hand, Aiello does teach that upon invalidation of a given key, another key requires reconfiguration only to the extent that it shares common ancestor keys with the given invalidated key (see columns 10, lines 19 –48).

Hence, it would have been obvious to one of ordinary skill in the art to have included the methods shown by Aiello into the combination taught by prior two references above, in order to reduce the consequent number of tokens (keys) needed to be updated each time a user's key is invalidated in a hierarchical structure (see columns 5 and 10, lines 55-60 and 48-56 of the Aiello reference), thus assuring low-overhead billing and the convenience of access, despite some unauthorized copying (see column 15, lines 15-25 of the Stefik reference). With respect to claim 13, the limitations shown there map directly onto the ones shown in claim 8 and are rejected under the same premise.

Application/Control Number: 10/629,599

Art Unit: 2132

2122

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sweet et al. (US PGPub 2002/0031230 A1) in view of Stefik et al. (US Patent # 6,236,971) as applied to claims 1 and 10 - 12 above, and further in view of Aiello et al. (US Patent # 6,397,329 B1). The Sweet and Stefik references has already been discussed above. However, neither one of these two teaches the use of a binary tree as the hierarchy.

On the other hand, Aiello does teach the use of a binary tree as the hierarchy (see column 8, lines 34 - 36).

Hence, it would have been obvious to one of ordinary skill in the art to have included the methods shown by Aiello into the combination taught by prior two references above, in order to reduce the consequent number of tokens (keys) needed to be updated each time a user's key is invalidated in a hierarchical structure (see columns 5 and 10, lines 55 – 60 and 48 – 56 of the Aiello reference), thus assuring low-overhead billing and the convenience of access, despite some unauthorized copying (see column 15, lines 15 – 25 of the Stefik reference).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Corbann A. Banks whose telephone number is (571) 270-1021. The examiner can normally be reached on Monday - Thursday from 8:30 am to 4:30pm. The examiner can also be reached on alternate Fridays during the same hours.

Application/Control Number: 10/629,599 Page 11

Art Unit: 2132

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron, can be reached on Monday – Friday from 8:00 am to 4:30pm. His telephone number is (571) 272- 3799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C.B.

Corbann Banks

October 04, 2006

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